

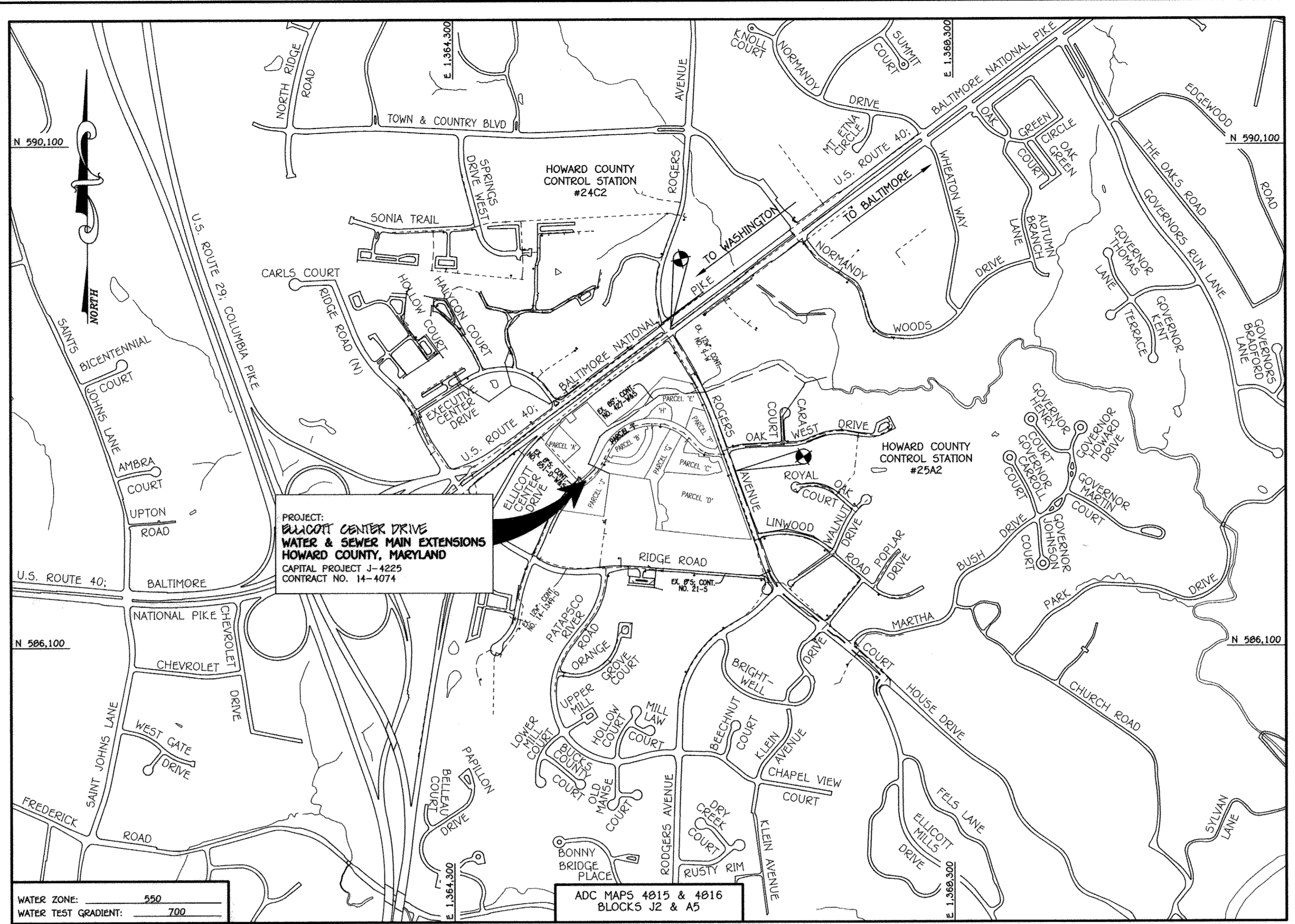
QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" W	1,740 L.F.	1,800 L.F.	C900	J.M. BAUBLE
8" V	70 L.F.	80 L.F.	C900	J.M. BAUBLE
8" VALVE	6 EACH	6 EACH	GATE VALVE	MUELLER CO.
6" VALVE	3 EACH	3 EACH	GATE VALVE	MUELLER CO.
12" TAPPING SLEEVE	2 EACH	2 EACH	95	KEWING IND.
8" TAPPING VALVE	2 EACH	2 EACH	ROVAL	MUELLER CO.
8" X 8" TEE	5 EACH	5 EACH	EPDXY M.T.	STAR PIPE
8" X 6" TEE	3 EACH	3 EACH	EPDXY M.T.	STAR PIPE
1/8" H.B.	2 EACH	2 EACH	PVC	PLASTIC TRENDS
1/16" H.B.	9 EACH	9 EACH	PVC	PLASTIC TRENDS
1/32" H.B.	3 EACH	3 EACH	MUELLER	MUELLER CO.
FIRE HYDRANT	3 EACH	3 EACH	MUELLER	MUELLER CO.
8" PLUG & BUTTRESS	5 EACH	5 EACH	PVC	PLASTIC TRENDS
CONTINUITY TEST STATION	3 EACH	3 EACH	BOX SLIDE	CAPITAL FOUNDRY
8" S; PVC	595 EACH	308 L.F.	SOR 35	J.M. BAUBLE
MANHOLES	11 EACH	11 EACH	PRE CAST	ATLANTIC

BENCHMARK INFORMATION

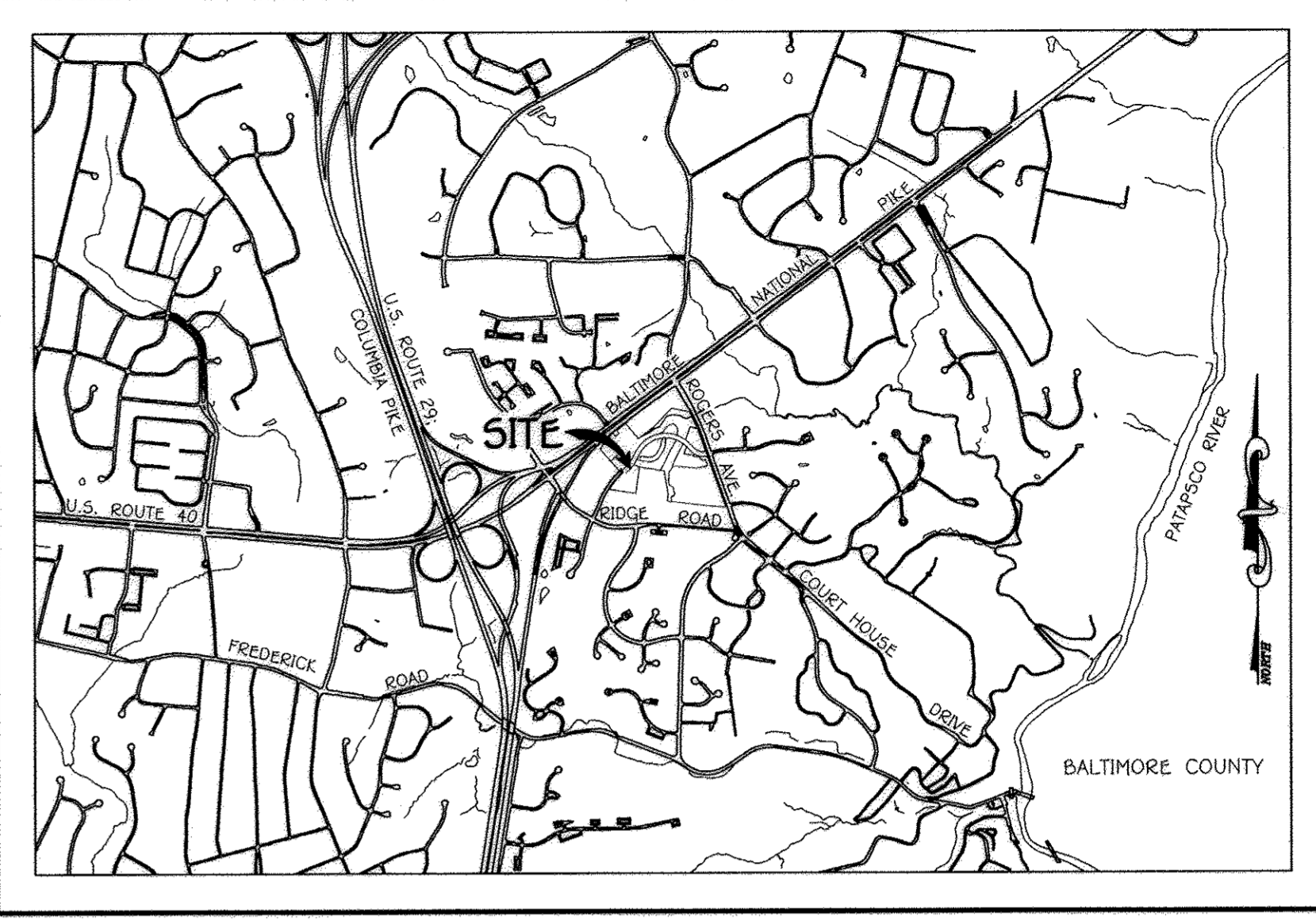
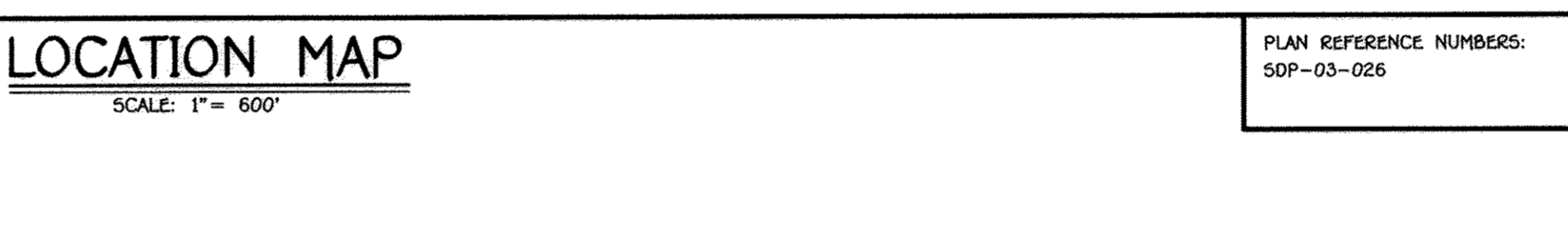
B.M.#1 - HOWARD COUNTY CONTROL STATION #24C2 - HORIZONTAL - NAD '83
(LOCATED IN THE MIDDLE OF MD ROUTE 40; BALTIMORE NATIONAL PIKE, IN THE NORTHEAST SIDE OF THE MEDIUM, AT THE INTERSECTION ON ROGERS AVENUE AND MD ROUTE 40)
N 508,648.3703
E 1,366,603.1308
ELEVATION = 354.017 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #25A2 - HORIZONTAL - NAD '83
(LOCATED ALONG ROGERS AVENUE, SOUTH OF OAK WEST DRIVE, APPROX. 6.2' SW OF SANITARY MANHOLE ALONG THE EAST SIDE OF ROAD, APPROX. 67.8' NORTH OF HOUSE NO. 3329)
N 507,502.7292
E 1,366,556.3776
ELEVATION = 348.145 - VERTICAL - (NAVD '88)

SHEET INDEX CHART	
SHEET	TITLE
1	TITLE SHEET
2	PLAN SHEET
3	WATER MAIN PROFILES & CHARTS
4	WATER MAIN PROFILES & CHARTS
5	SEWER MAIN PROFILES & CHARTS
6	SD & EROSION CONTROL PLAN, NOTES & DETAILS



TYPE OF BUILDING: FUTURE OFFICE BUILDING	NUMBER OF PARCELS: 1
NO. OF WATER HOUSE CONNECTIONS: 0	NO. OF SEWER HOUSE CONNECTIONS: 0
SEWER SHED: PATAPSCO	TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT CITY OF BALTIMORE



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- PART A**
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT MARCH, 2011 BY FISHER, COLLINS & CARTER, INC.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 24C2 & NO. 25A2. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
 - FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
 - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (S) AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1-800-292-1133
BGE (CONTRACTOR SERVICES)	410-637-8713
BGE (EMERGENCY)	410-685-0123
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033 / 410-224-9210
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 10.114(B) OF THE HOWARD COUNTY CODE.

- PART B: WATER MAIN GENERAL NOTES**
- ALL WATER MAINS SHALL BE AWWA C900 PVC; DR-18.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
 - TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL D.I.P. AND PVC WATER MAINS IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL.
 - FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.
 - UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN (17) POUND SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.

- PART C: SEWER MAIN GENERAL NOTES**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

DEVELOPER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Kriebel; FOR: 04-17-12
3330 ROGERS AVENUE, LLC DATE
SIGNATURE OF DEVELOPER

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Paul W. Kriebel 04/17/12
SIGNATURE OF ENGINEER DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE SITE DEVELOPMENT PLAN, SDP-03-025 & ON THESE PLANS.

Paul W. Kriebel; FOR: 04-17-12
3330 ROGERS AVENUE, LLC DATE
SIGNATURE OF DEVELOPER

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

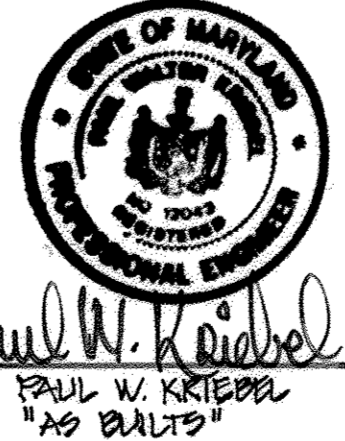
APPROVED: John R. Roberts 4/24/12
HOWARD SOIL CONSERVATION DISTRICT DATE

EP-12-033
THIS DRAWING SUPERSEDES THE PREVIOUS DRAWING SIGNED IN APRIL, 2003

MDE PERMIT AND TRACKING NO.: 200266336

CAPITAL PROJECT J-4225 CONTRACT NO. 14-4074

ELLICOTT CENTER DRIVE WATER & SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Thomas E. Fuller 4/19/12
DATE CHIEF, BUREAU OF ENGINEERING

John W. L. St 4/20/12
DATE CHIEF, BUREAU OF UTILITIES

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 12043 EXPIRATION DATE 8/7/16/12.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
10772 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461-2899

Paul W. Kriebel
DATE: APRIL, 2012

DESIGNED BY: B.C.R.	CHECKED BY: P.W.K.	DATE: APRIL, 2012
DRAWN BY: B.C.R.	DATE: 4/1/12	BY NO. REVISION

OWNERS
HOWARD COUNTY MD 3330 ROGERS AVENUE LLC
3430 COURTHOUSE DRIVE SUITE 102
ELLICOTT CITY, MD 21042 410-313-4400

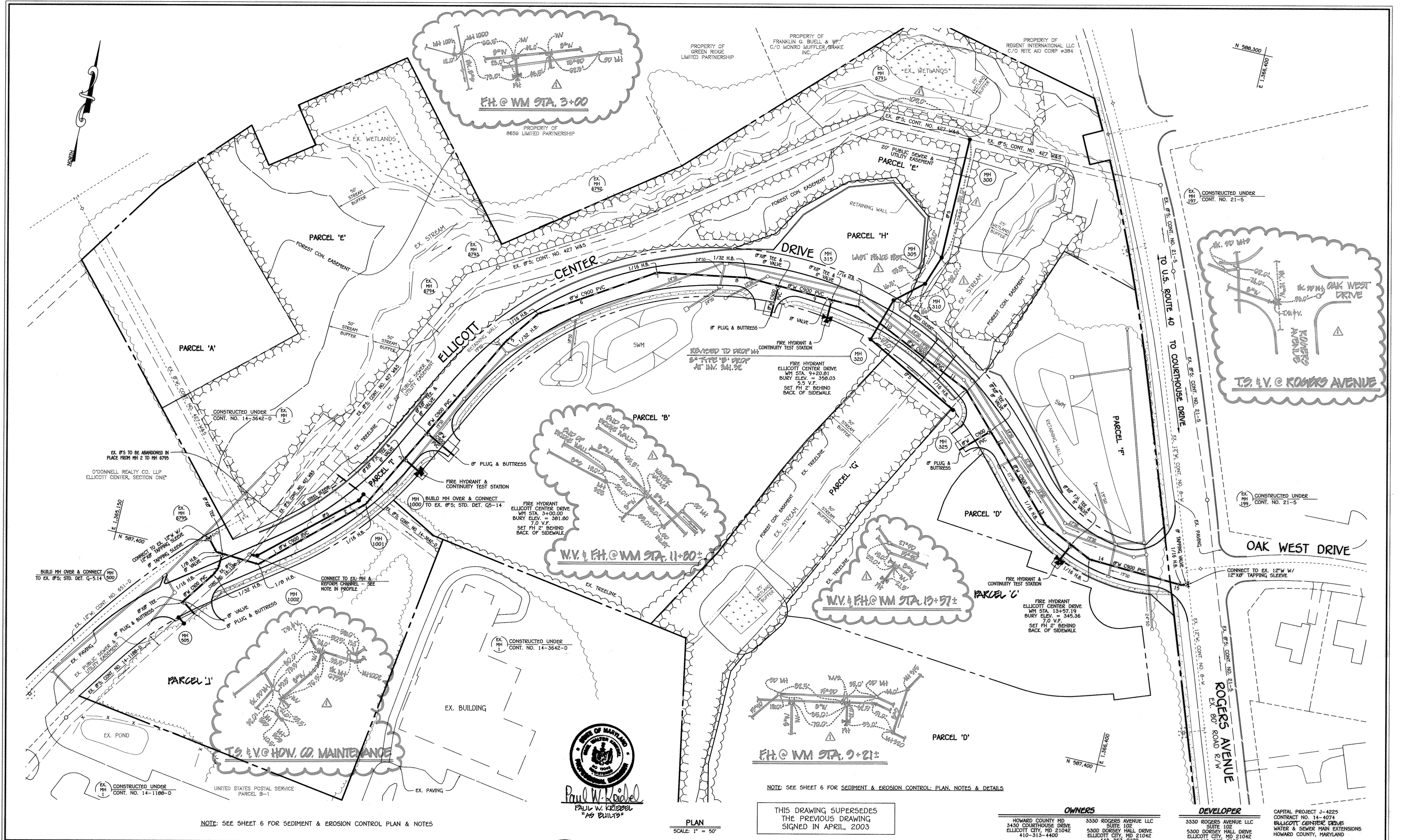
DEVELOPER
3330 ROGERS AVENUE LLC SUITE 102
5300 DORSEY HALL DRIVE ELLICOTT CITY, MD 21042 443-367-0422

CAPITAL PROJECT J-4225
CONTRACT NO. 14-4074
ELLICOTT CENTER DRIVE
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 6

600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
F.C.C. WORK ORDER NO. 10040
FILE NAME: WATER & SEWER MAIN EXTENSION TITLE SHEET

AS BUILTS: 04/13



NOTE: SEE SHEET 6 FOR SEDIMENT & EROSION CONTROL PLAN & NOTES



Paul W. Kriebel
PAUL W. KRIEBEL
"AS BUILTS"

NOTE: SEE SHEET 6 FOR SEDIMENT & EROSION CONTROL PLAN, NOTES & DETAILS

THIS DRAWING SUPERSEDES THE PREVIOUS DRAWING SIGNED IN APRIL, 2003

OWNERS
HOWARD COUNTY MD
3430 COURTHOUSE DRIVE
ELLCOTT CITY, MD 21042
410-313-4400

DEVELOPER
3330 ROGERS AVENUE LLC
SUITE 102
5300 DORSEY HALL DRIVE
ELLCOTT CITY, MD 21042
443-367-0422

CAPITAL PROJECT J-4225
CONTRACT NO. 14-4074
ELLCOTT CENTER DRIVE
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	
DIRECTOR OF PUBLIC WORKS <i>[Signature]</i>	CHIEF, BUREAU OF ENGINEERING <i>[Signature]</i>
CHIEF, BUREAU OF UTILITIES <i>[Signature]</i>	CHIEF, UTILITY DESIGN DIVISION <i>[Signature]</i>
DATE: 4/19/12	DATE: 4/19/12

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12043 EXPIRATION DATE 5/31/16/12.

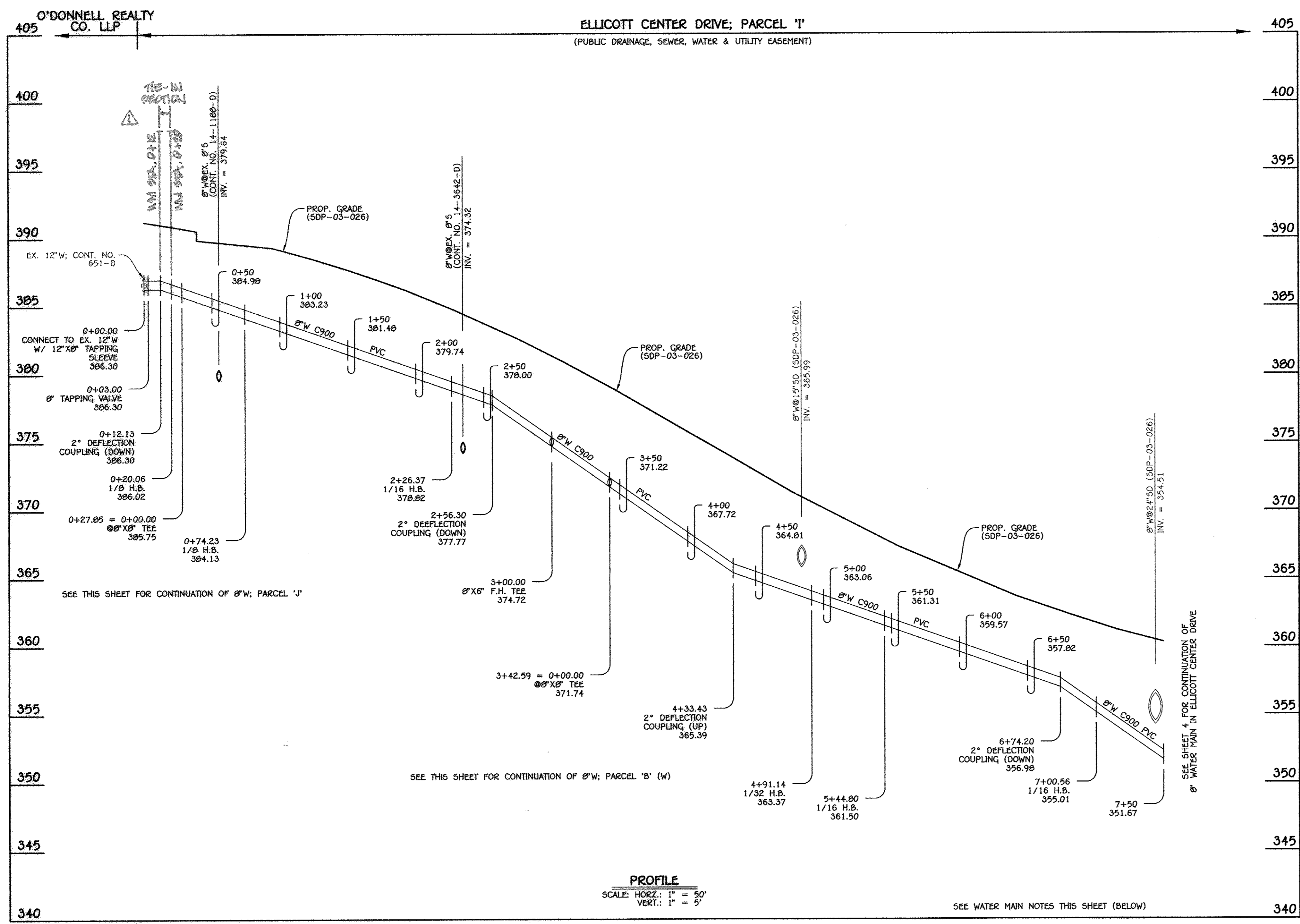
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 12672 BALTIMORE NATIONAL Pk
ELLCOTT CITY, MARYLAND 21042
(410) 461-2895

DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	APRIL, 2012
BY:	NO.
REVISION:	DATE:

WATER & SEWER MAIN EXTENSIONS PLAN	
60' SCALE MAP NO. 24/25	BLOCK NO. 6/1
F.C.C. WORK ORDER NO. 10040	
FILE NAME: WATER & SEWER MAIN EXTENSION PLAN	

ELLCOTT CENTER DRIVE CAPITAL PROJECT J-4225 CONTRACT NO. 14-4074 WATER & SEWER MAIN EXTENSIONS SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
SCALE AS SHOWN	SHEET 2 OF 6

AS BUILTS: 04/13



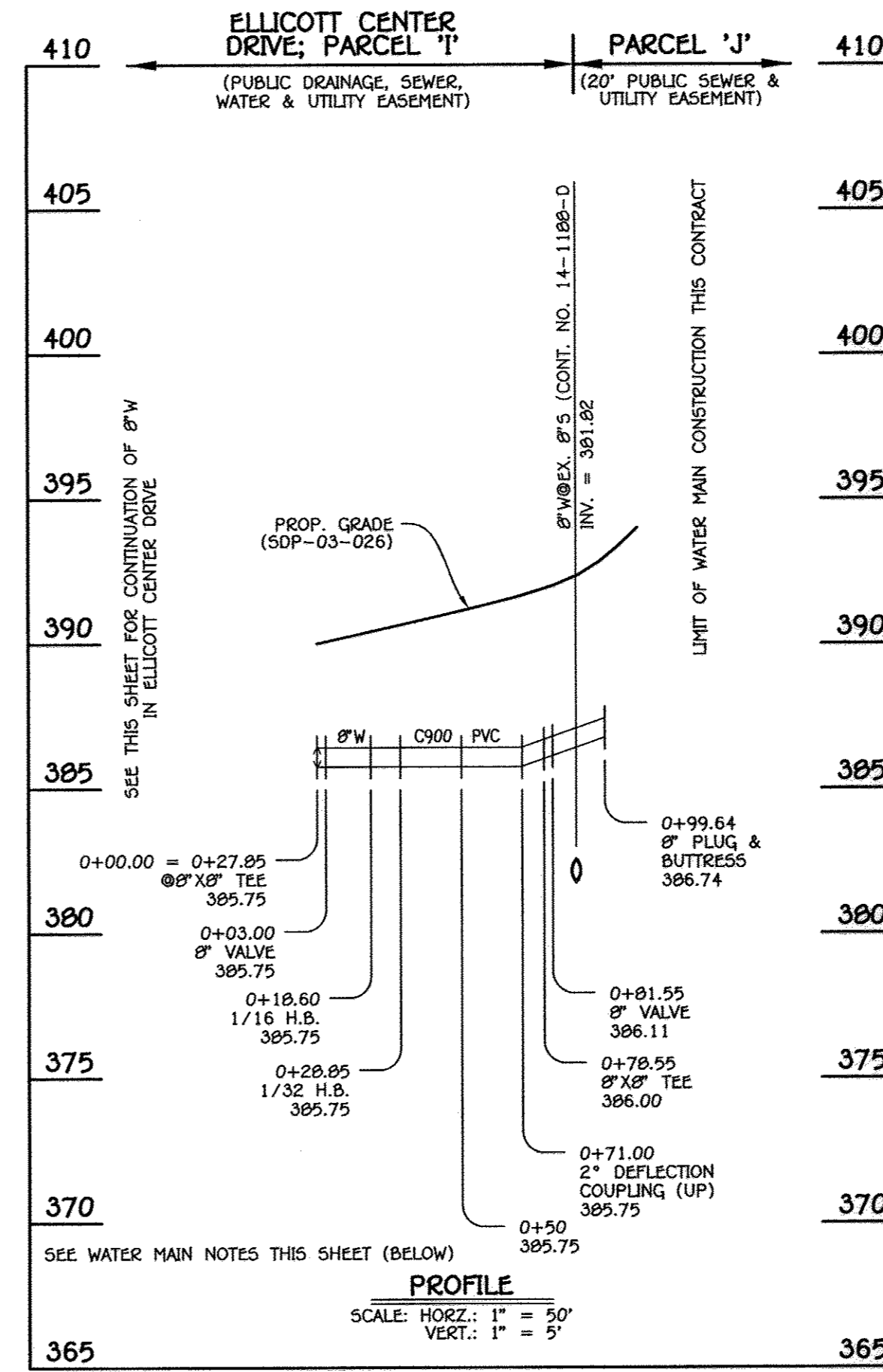
8" WATER MAIN: ELLICOTT CENTER DRIVE

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: ELLICOTT CENTER DRIVE			
0+00.00	12" X8" TAPPING SLEEVE	587419.62	1365263.85
0+03.00	8" TAPPING VALVE	587417.38	1365265.85
0+20.06	1/8 H.B.	587404.63	1365277.19
0+27.85	8" X8" TEE	587404.23	1365284.97
0+74.23	1/8 H.B.	587401.84	1365331.29
2+26.37	1/16 H.B.	587504.44	1365443.63
3+00.00	8" X6" F.H. TEE	587569.75	1365477.62
3+42.59	8" X8" TEE	587607.53	1365497.28
4+91.14	1/32 H.B.	587739.30	1365565.87
5+44.80	1/16 H.B.	587782.54	1365597.63
7+00.56	1/16 H.B.	587866.05	1365729.12

- WATER MAIN NOTES:**
- ALL WATER MAINS SHALL BE AWWA C900 PVC DR-14 PIPE.
 - TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE IN ACCORDANCE WITH SECTION 1002 AND THE STANDARD DETAILS OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
 - DEFLECTION COUPLINGS SHALL BE CERTAIN-TEE PVC HIGH DEFLECTION COUPLINGS.
 - ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

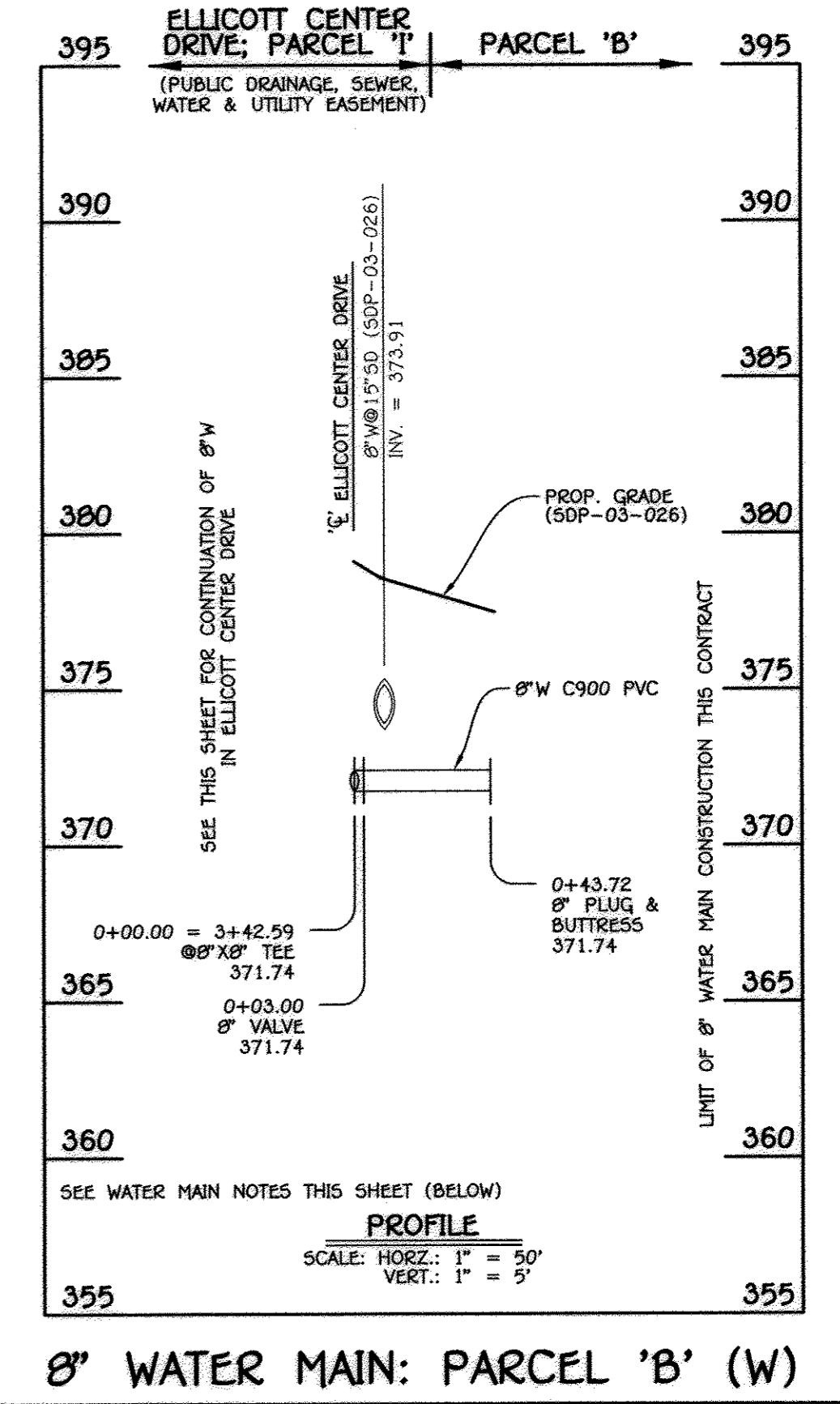


Paul W. Reibel
PAUL W. REIBEL
"AS BUILTS"



8" WATER MAIN: PARCEL 'J'

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: PARCEL 'J'			
0+00.00	8" X8" TEE	587404.23	1365284.97
0+03.00	8" VALVE	587401.24	1365284.01
0+18.60	1/16 H.B.	587385.66	1365284.00
0+28.85	1/32 H.B.	587376.33	1365279.77
0+78.55	8" X8" TEE	587335.72	1365251.11
0+81.55	8" VALVE	587333.99	1365253.56
0+99.64	8" PLUG & BUTTRESS	587323.55	1365268.34



8" WATER MAIN: PARCEL 'B' (W)

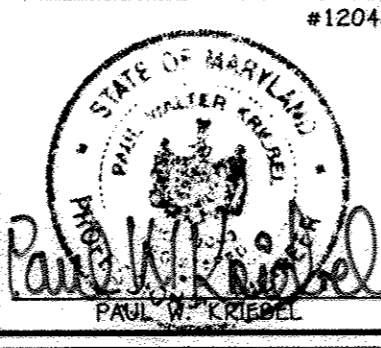
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: PARCEL 'B' (W)			
0+00.00	8" X8" TEE	587607.53	1365497.28
0+03.00	8" VALVE	587606.18	1365499.97
0+43.72	8" PLUG & BUTTRESS	587587.90	1365536.35

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* DATE: 4/19/12
 Chief, Bureau of Engineering: *[Signature]* DATE: 4/19/12
 Chief, Bureau of Utilities: *[Signature]* DATE: 4/23/12
 Chief, Utility Design Division: *[Signature]* DATE: 4/19/12

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 12043 EXPIRATION DATE IS 7/16/12.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2899



DESIGNED BY: B.C.R.
 DRAWN BY: B.C.R.
 CHECKED BY: P.W.K.
 DATE: APRIL, 2012

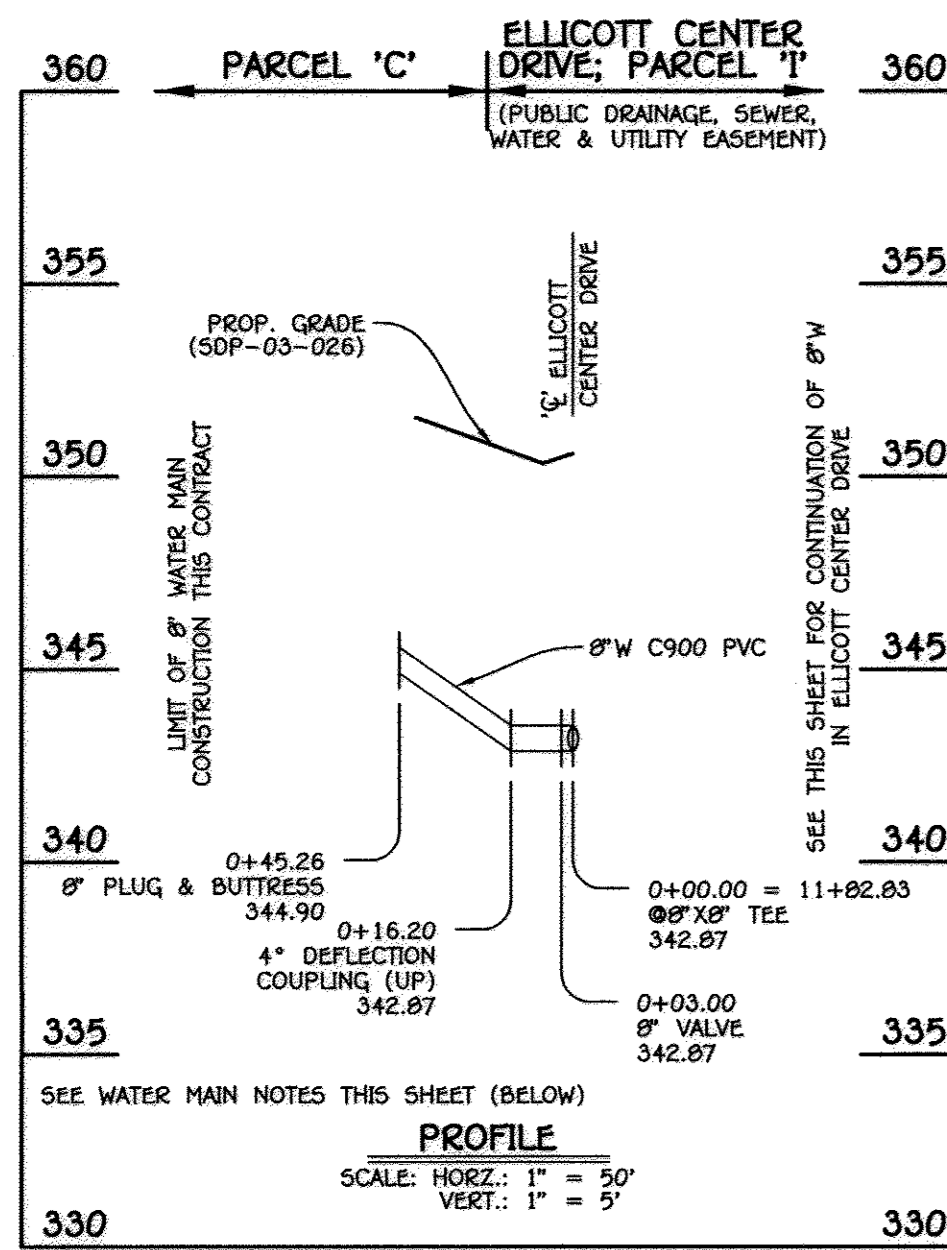
60' SCALE MAP NO. 24/25 BLOCK NO. 6/1
 F.C.C. WORK ORDER NO. 10040
 FILE NAME: WATER MAIN EXTENSION PROFILES

WATER MAIN EXTENSIONS PROFILES & CHARTS

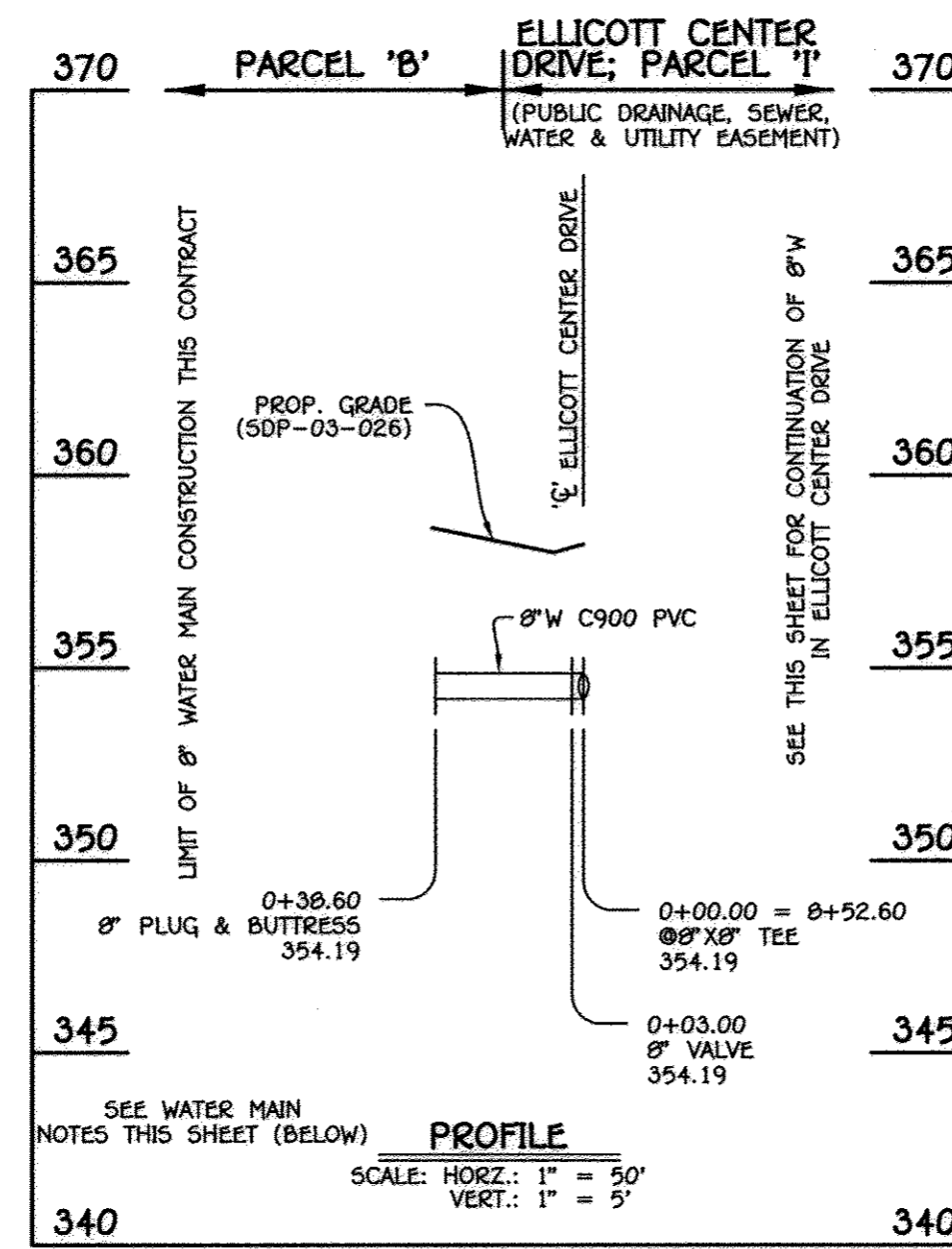
ELLICOTT CENTER DRIVE
 CAPITAL PROJECT J-4225
 CONTRACT NO. 14-4074
 WATER & SEWER MAIN EXTENSIONS
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 3 OF 6

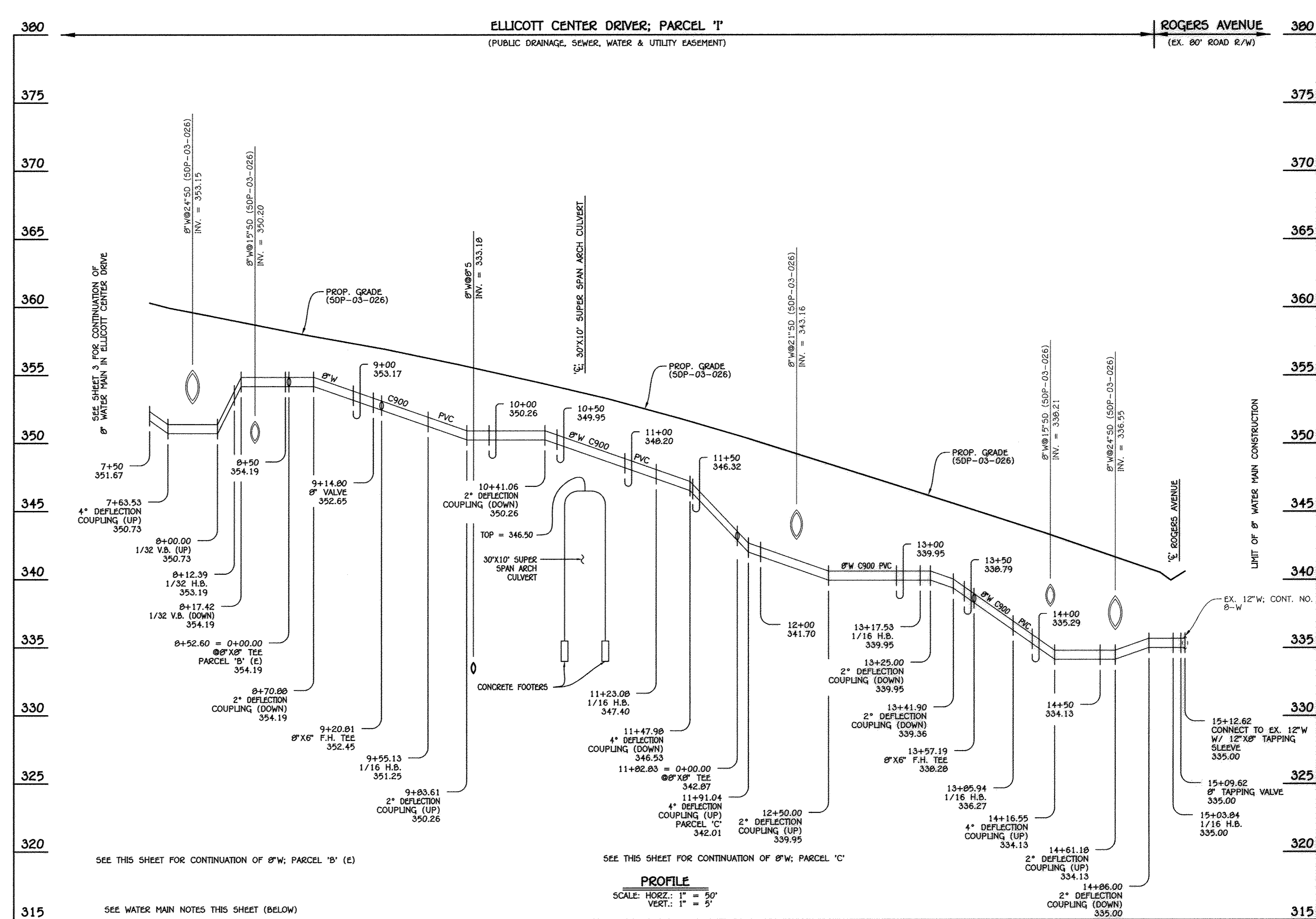
AS BUILTS: 04/13



8" WATER MAIN: PARCEL 'C'



8" WATER MAIN: PARCEL 'B' (E)



8" WATER MAIN: ELICOTT CENTER DRIVE

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: PARCEL 'C'			
0+00.00	8" X 8" TEE	587770.06	1366176.56
0+03.00	8" VALVE	587767.98	1366174.41
0+45.26	8" PLUG & BUTTRESS	587738.60	1366144.02

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: PARCEL 'B' (E)			
0+00.00	8" X 8" TEE	587884.54	1365879.43
0+03.00	8" VALVE	587881.56	1365879.36
0+38.60	8" PLUG & BUTTRESS	587845.97	1365878.51

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: ELICOTT CENTER DRIVE			
8+12.39	1/32 H.B.	587885.53	1365839.24
8+52.60	8" X 8" TEE	587884.56	1365879.43
9+14.80	8" VALVE	587883.07	1365941.63
9+20.81	8" X 6" F.H. TEE	587882.93	1365947.63
9+55.13	1/16 H.B.	587882.10	1365981.94
11+23.08	1/16 H.B.	587813.02	1366135.03
11+82.83	8" X 8" TEE	587770.06	1366176.56
13+17.53	1/16 H.B.	587673.23	1366270.20
13+57.19	8" X 6" F.H. TEE	587656.54	1366306.17
13+85.94	1/16 H.B.	587644.43	1366332.24
15+03.84	1/16 H.B.	587639.48	1366450.04
15+09.62	8" TAPPING VALVE	587641.38	1366455.50
15+12.62	12" X 8" TAPPING SLEEVE	587642.37	1366458.33

- WATER MAIN NOTES:
1. ALL WATER MAINS SHALL BE AWWA C900 PVC DR-14 PIPE.
 2. TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE IN ACCORDANCE WITH SECTION 1002 AND THE STANDARD DETAILS OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
 3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
 4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



THIS DRAWING SUPERSEDES THE PREVIOUS DRAWING SIGNED IN APRIL, 2003

CAPITAL PROJECT J-4225
CONTRACT NO. 14-4074
ELICOTT CENTER DRIVE
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

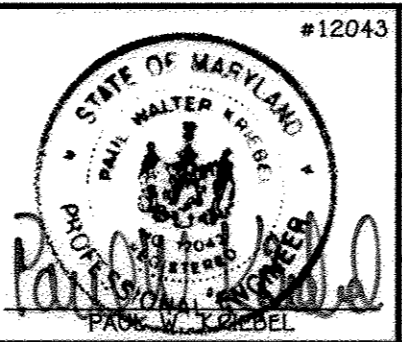
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* Date: 4/19/12
Chief, Bureau of Engineering: *[Signature]* Date: 4/19/12

Chief, Bureau of Utilities: *[Signature]* Date: 4/24/12
Chief, Utility Design Division: *[Signature]* Date: 4/19/12

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 12043 EXPIRATION DATE 5/7/16/12

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2995



DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: APRIL 2012

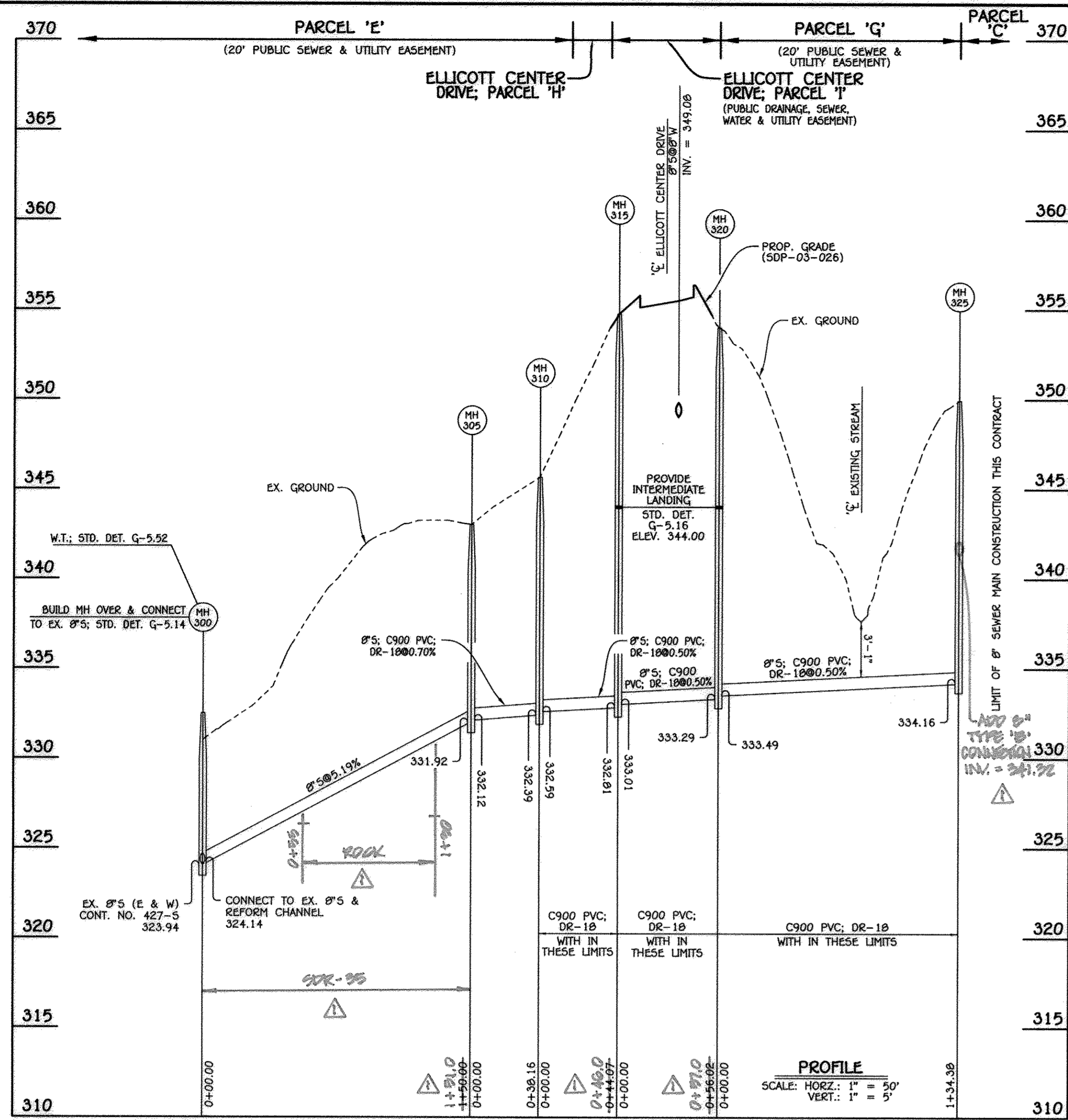
WATER MAIN EXTENSIONS
PROFILES & CHARTS

600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
F.C.C. WORK ORDER NO. 10040
FILE NAME: WATER MAIN EXTENSION PROFILES

ELICOTT CENTER DRIVE
CAPITAL PROJECT J-4225
CONTRACT NO. 14-4074
WATER & SEWER MAIN EXTENSIONS
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 4 OF 6

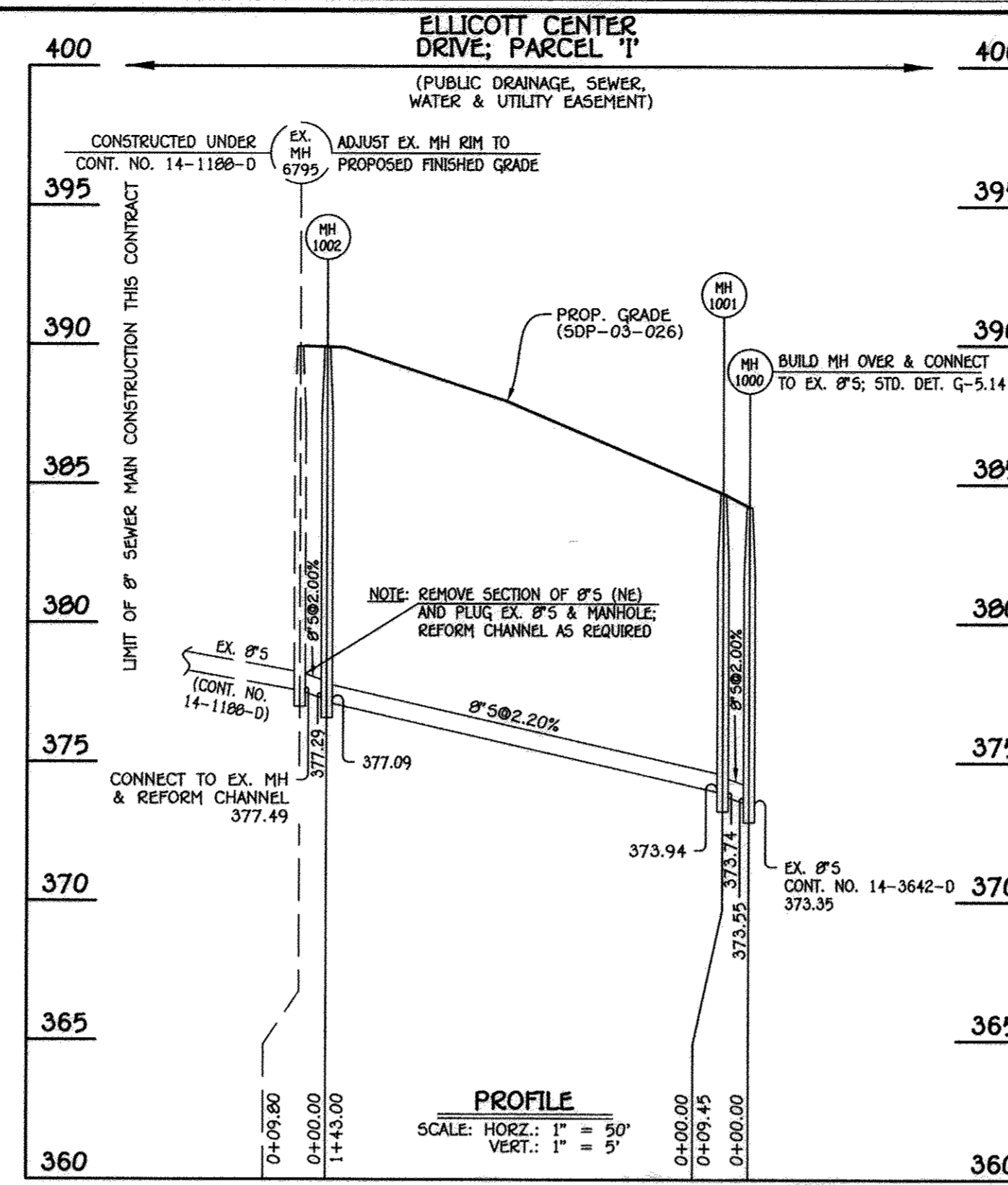
AS BUILTS: 04/13



8" SEWER MAIN; PARCEL 'C'

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
300	580114.90	1366068.42	332.50**
305	587964.98	1366068.06	343.00*
310	587928.93	1366055.54	345.66*
315	587900.11	1366022.19	354.51*
320	587846.60	1366005.61	354.00*
325	587785.06	1366125.07	350.00*

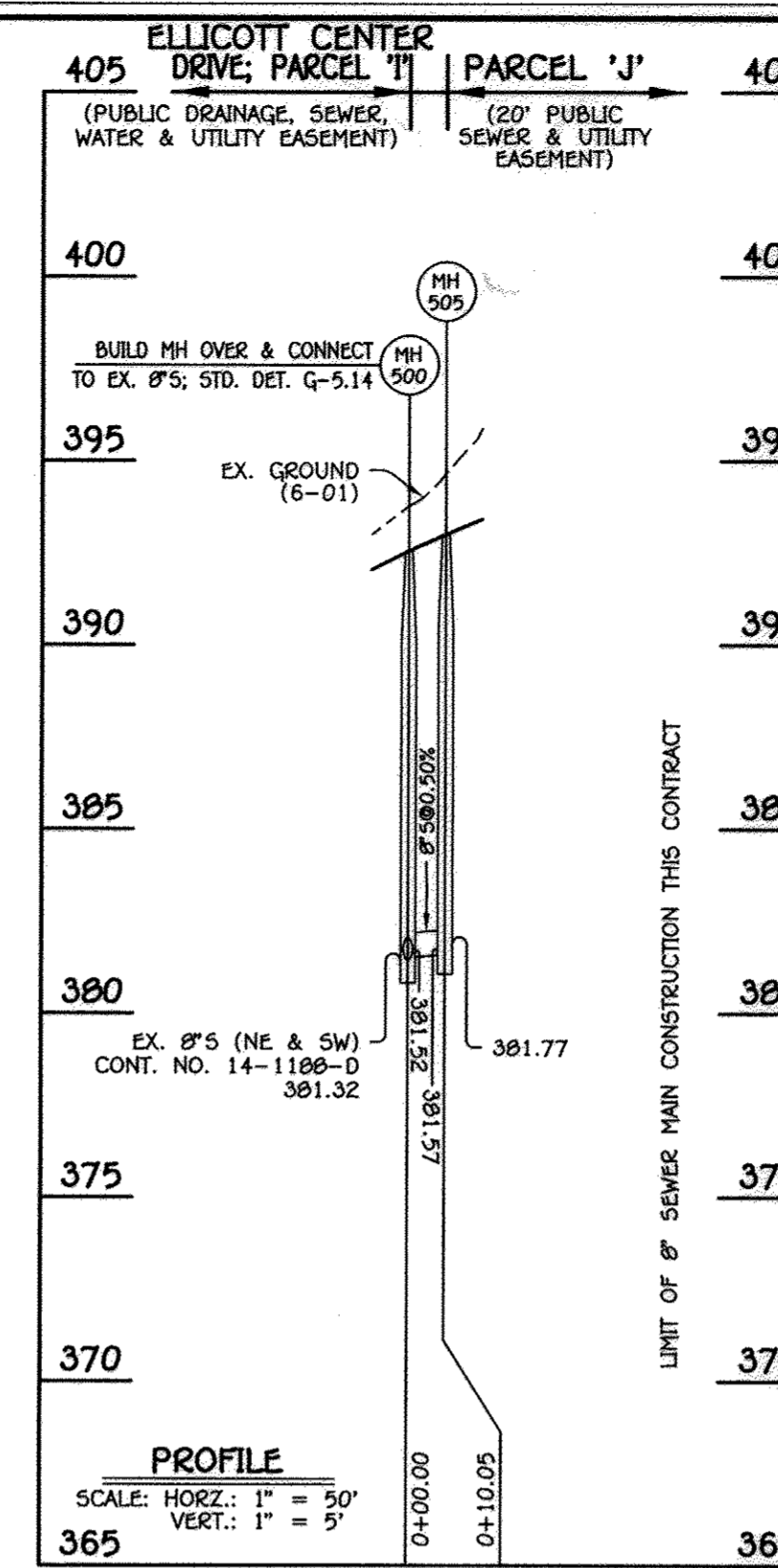
* NOTE: SET MH RIMS FLUSH W/EXISTING GROUND OR PROPOSED GRADE AS APPLICABLE.
 ** NOTE: SET MH RIM 1'-6" ABOVE EX. GROUND; STD. DET. G-5.14.



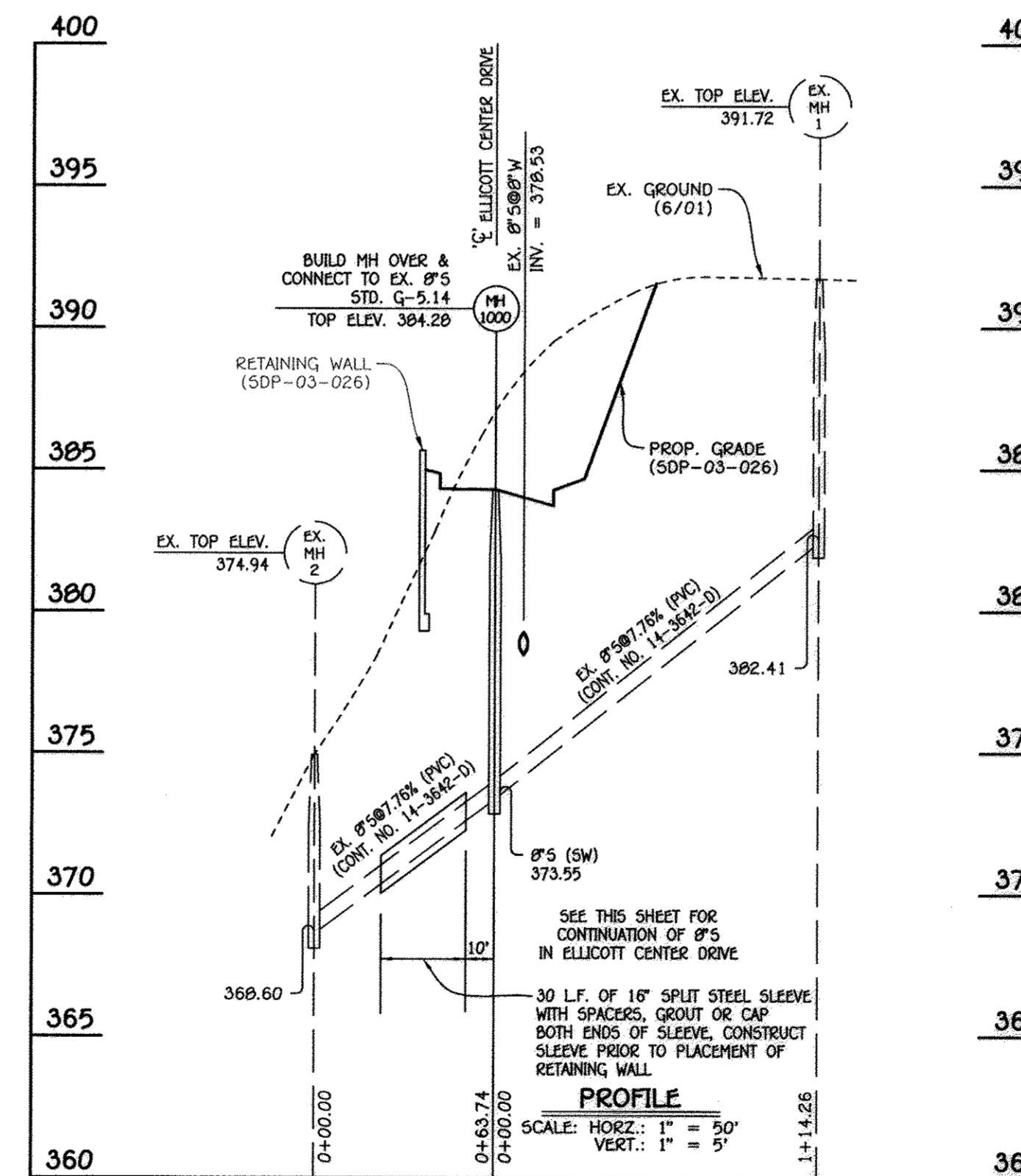
8" SEWER MAIN: ELLICOTT CENTER DRIVE

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
1000	587515.77	1365438.26	384.16
1001	587507.12	1365434.45	384.65
1002	587412.04	1365327.63	389.90

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.



8" SEWER MAIN; PARCEL 'J'



STEEL SLEEVE @ EX. 8" SEWER MAIN

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
500	587315.18	1365250.20	392.50
505	587309.38	1365258.41	393.00

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

PAUL W. KRIBBEL
 "AS BUILT"

THIS DRAWING SUPERSEDES THE PREVIOUS DRAWING SIGNED IN APRIL, 2003

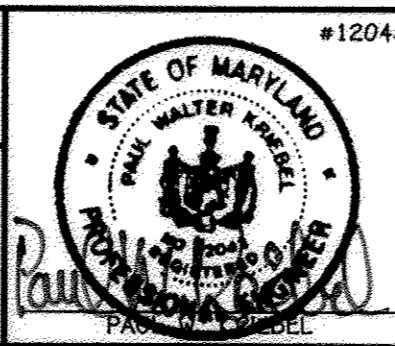
CAPITAL PROJECT J-4225
 CONTRACT NO. 14-4074
 ELLICOTT CENTER DRIVE
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]*
 Chief, Bureau of Engineering: *[Signature]* 4/19/12
 Chief, Bureau of Utilities: *[Signature]* 4/19/12

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 LICENSE NO. 12043 EXPIRATION DATE 5/7/16/12.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 18275 BALDWIN ROAD, SUITE 2104
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2895



DESIGNED BY: B.C.R.
 DRAWN BY: B.C.R.
 CHECKED BY: P.W.K.
 DATE: APRIL 2012

REVISION: 4/1/12

SEWER MAIN EXTENSIONS
 PROFILES & CHARTS

600' SCALE MAP NO. 24/25 BLOCK NO. 6/1
 F.C.C. WORK ORDER NO. 10040

FILE NAME: SEWER MAIN EXTENSION PROFILES

ELLICOTT CENTER DRIVE
 CAPITAL PROJECT J-4225
 CONTRACT NO. 14-4074
 WATER & SEWER MAIN EXTENSIONS
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 5 OF 6

AS BUILTS: 04/13

